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In Search for Model-Driven eXplainable Artificial Intelligence

This presentation reports on ongoing and innovative research in the area of \textit{eXplainable Artificial Intelligence} (XAI). A classical XAI task is considered as finding an explanation of the model generated via Machine Learning by identifying the most influential variables for local decision-making. Such an approach suffers from severe limitations. The proposed approach moves the explanatory process to a new, deeper-level dimension. It is oriented towards Model Discovery, i.e. the internal structure and functions of the components. The concept of Model-Driven XAI is put forward and explained. An experiment on Function Discovery via Grammatical Evolution is reported in brief.